

UNITED HYDRO 600 PLUS (SHPD)

Product Description

Synthetic Diesel Engine Oil utilizing a Super High Performance Diesel (SHPD) technology delivering outstanding performance and durability. Developed to provide the ultimate protection for low-emission heavy duty engines fitted with diesel particulate filters and other exhaust after-treatment devices, this formulation is also optimized for suitability with B20 diesel fuels. It ensures peak performance and protection for modern systems as well as older engines from Europe, USA, and Japan.

Applications / Benefits

- * Minimizes oil consumption, long drain interval
- * Superior protection against valve train wear
- * Neutralizes acids from high sulfur fuel
- * Particularly suitable for diesel engines equipped with EGR

Typical Characteristics

Test Description	Method	Unit				
SAE Viscosity Grade	SAE J 300	-	10W30	10W40	15W40	20W50
Density @ 15 °C	ASTM D 4052	kg/L	0.862	0.863	0.869	0.868
Flash Point	ASTM D 92	°C	214	218	226	244
Pour Point	ASTM D 97	°C	-36	-33	-30	-21
Kinematic Viscosity @ 40°C	ASTM D 445	cSt	71.1	101.3	104.1	135.9
Kinematic Viscosity @ 100°C	ASTM D 445	cSt	11.6	15.1	14.7	18.1
Viscosity Index	ASTM D 2270	-	158	156	147	148
TBN	ASTM D 2896	mgKOH/g	11.1	11.1	11.5	11.1
CCS	ASTM D 5293	cP	≤7000	≤7000	≤7000	≤9500

Specifications, Approvals & Recommendations

	10W40
* API	CI-4/SL
* ACEA	E7
* CATERPILLAR	ECF-1A
* CATERPILLAR	ECF-2
* CUMMINS	CES 20078
* CUMMINS	CES 20077
* MACK	EO-M PLUS
* MAN	M3275
* MERCEDES BENZ	228.3
* MTU	CATEGORY 2
* RENAULT	RLD-2
* VOLVO	VDS-3

Suggested for the Following Uses

	10W30	15W40	20W50
* API	CI-4/SL	CI-4/SL	CI-4/SL
* ACEA	-	E7	E7
* CATERPILLAR	ECF-1A	ECF-1A	-
* CATERPILLAR	ECF-2	ECF-2	-
* CUMMINS	CES 20078	CES 20078	-
* CUMMINS	-	CES 20077	-
* DETROIT DIESEL	-	DFS 93K215	-
* DEUTZ	-	DQC-III	-
* JASO	DH-1	DH-1	-
* MACK	-	EO-N	-
* MACK	EO-M PLUS	EO-M PLUS	-
* MAN	-	M3275	-
* MERCEDES BENZ	-	228.3	-
* MTU	-	CATEGORY 2	-
* RENAULT	-	RLD-2	-
* VOLVO	-	VDS-3	-

Reference No.
5183G23CI4SLDREV2

Last revised date:
3/9/2026